national Application No PCT/US2004/021714

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/315

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ C07K$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic	data base consulted during the International search (name of dat	a base and, where practical, search terms use	d)
	ternal, BIOSIS, MEDLINE, WPI Data		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with Indication, where appropriate, of the	e relevant passages	Relevant to claim No.
X	GUBBA SIDDESWAR ET AL: "Expre characterization of group A St extracellular cysteine proteas recombinant mutant proteins an documentation of seroconversio human invasive disease episode INFECTION AND IMMUNITY, vol. 66, no. 2, February 1998 pages 765-770, XP002304245 ISSN: 0019-9567 page 765 - page 167	reptococcus e d n during s"	1-71
	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docum consi "E" earlier filing "L" docum which citatio "O" docum	ategories of cited documents: sent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 	
"P" docum later i	· · · · · · · · · · · · · · · · · · ·		
P docum later i	actual completion of the International search	Date of malling of the international se	earch report
P' docum later t Date of the	actual completion of the International search November 2004	Date of mailing of the international so	earch report
"P" docum later t Date of the			earch report

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	C1/US20U4/U21/14
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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
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